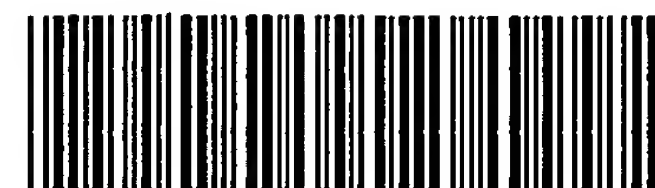


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DATE: 05/16/2002

TIME: 14:13:08

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1 <110> APPLICANT: THOMPSON, Catherine C.
 2 <120> TITLE OF INVENTION: HUMAN HAIRLESS GENE AND PROTEIN
 3 <130> FILE REFERENCE: Thompson-20263/0243435
 4 <140> CURRENT APPLICATION NUMBER: 10/024,368
 5 <141> CURRENT FILING DATE: 2001-12-21
 7 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/287,354
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 13 <160> NUMBER OF SEQ ID NOS: 10
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 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 3202
 18 <212> TYPE: DNA
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24	ctcttcctgg	ggcagccaga	cactgtgccc	tggacctcct	ggcccgcctt	tccccagggc	240
25	cttgttcata	ctcttggcaa	cgtctgggct	gggccaggcg	atgggaacct	tgggtaccag	300
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27	tgctgttcat	cctaccacc	cactaaaggt	ggggatcttg	gcccttggtg	gaagtgccag	420
28	gagggcctgg	aggggggtgc	cagtggagcc	agcgaaccca	gcgaggaagt	gaacaaggcc	480
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30	cggcactcgg	agcagtttga	atgtccacgc	ggctgccctg	aggtcgagga	gagggccggt	600
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76 <210> SEQ ID NO: 2

77 <211> LENGTH: 984

78 <212> TYPE: PRT

79 <213> ORGANISM: Homo sapiens

80 <400> SEQUENCE: 2

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84 20 25 30
85 Gln Arg Ala Gly Glu Ala Glu Arg Pro Ser Leu His Gln Arg Asp Gly
86 35 40 45
87 Glu Met Gly Ala Gly Arg Gln Gln Asn Pro Cys Pro Leu Phe Leu Gly
88 50 55 60
89 Gln Pro Asp Thr Val Pro Trp Thr Ser Trp Pro Ala Cys Pro Pro Gly
90 65 70 75 80
91 Leu Val His Thr Leu Gly Asn Val Trp Ala Gly Pro Gly Asp Gly Asn
92 85 90 95
93 Leu Gly Tyr Gln Leu Gly Pro Pro Ala Thr Pro Arg Cys Pro Ser Pro
94 100 105 110
95 Glu Pro Pro Val Thr Gln Arg Gly Cys Cys Ser Ser Tyr Pro Pro Thr
96 115 120 125
97 Lys Gly Gly Asp Leu Gly Pro Cys Gly Lys Cys Gln Glu Gly Leu Glu

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102		165	170
103	Thr Trp Leu Thr Arg His Ser Glu Gln Phe Glu Cys Pro Arg Gly Cys		175
104		180	185
105	Pro Glu Val Glu Glu Arg Pro Val Ala Arg Leu Arg Ala Leu Lys Arg		190
106		195	200
107	Ala Gly Ser Pro Glu Val Gln Gly Ala Met Gly Ser Pro Ala Pro Lys		205
108		210	215
109	Arg Pro Pro Asp Pro Phe Pro Gly Thr Ala Glu Gln Gly Ala Gly Gly		220
110	225	230	235
111	Trp Gln Glu Val Arg Asp Thr Ser Ile Gly Asn Lys Asp Val Asp Ser		240
112		245	250
113	Gly Gln His Asp Glu Gln Lys Gly Pro Gln Asp Gly Gln Ala Ser Leu		255
114		260	265
115	Gln Asp Pro Gly Leu Gln Asp Ile Pro Cys Leu Ala Leu Pro Ala Lys		270
116		275	280
117	Leu Ala Gln Cys Gln Ser Cys Ala Gln Ala Ala Gly Glu Gly Gly Gly		285
118		290	295
119	His Ala Cys His Ser Gln Gln Val Arg Arg Ser Pro Leu Gly Gly Glu		300
120	305	310	315
121	Leu Gln Gln Glu Glu Asp Thr Ala Thr Asn Ser Ser Ser Glu Glu Gly		320
122		325	330
123	Pro Gly Ser Gly Pro Asp Ser Arg Leu Ser Thr Gly Leu Ala Lys His		335
124		340	345
125	Leu Leu Ser Gly Leu Gly Asp Arg Leu Cys Arg Leu Leu Arg Arg Glu		350
126		355	360
127	Arg Glu Ala Leu Ala Trp Ala Gln Arg Glu Gly Gln Gly Pro Ala Val		365
128		370	375
129	Thr Gly Asp Ser Pro Gly Ile Pro Arg Cys Cys Ser Arg Cys His His		380
130	385	390	395
131	Gly Leu Phe Asn Thr His Trp Arg Cys Pro Arg Cys Ser His Arg Leu		400
132		405	410
133	Cys Val Ala Cys Gly Arg Val Ala Gly Thr Gly Arg Ala Arg Glu Lys		415
134		420	425
135	Ala Gly Phe Gln Glu Gln Ser Ala Glu Glu Cys Thr Gln Glu Ala Gly		430
136		435	440
137	His Ala Ala Cys Ser Leu Met Leu Thr Gln Phe Val Ser Ser Gln Ala		445
138		450	455
139	Leu Ala Glu Leu Ser Thr Ala Met His Gln Val Trp Val Lys Phe Asp		460
140	465	470	475
141	Ile Arg Gly His Cys Pro Cys Gln Ala Asp Ala Arg Val Trp Ala Pro		480
142		485	490
143	Gly Asp Ala Gly Gln Gln Lys Glu Ser Thr Gln Lys Thr Pro Pro Thr		495
144		500	505
145	Pro Gln Pro Ser Cys Asn Gly Asp Thr His Arg Thr Lys Ser Ile Lys		510
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150	545					550					555					560
151	Ala	Val	Lys	Leu	Cys	Leu	Gly	His	Glu	Arg	Ile	His	Met	Ala	Phe	Ala
152					565					570						575
153	Pro	Val	Thr	Pro	Ala	Leu	Pro	Ser	Asp	Asp	Arg	Ile	Thr	Asn	Ile	Leu
154				580					585					590		
155	Asp	Ser	Ile	Ile	Ala	Gln	Val	Val	Glu	Arg	Lys	Ile	Gln	Glu	Lys	Ala
156			595					600					605			
157	Leu	Gly	Pro	Gly	Leu	Arg	Ala	Gly	Pro	Gly	Leu	Arg	Lys	Gly	Leu	Gly
158	610						615					620				
159	Leu	Pro	Leu	Ser	Pro	Val	Arg	Pro	Arg	Leu	Pro	Pro	Pro	Gly	Ala	Leu
160	625					630					635					640
161	Leu	Trp	Leu	Gln	Glu	Pro	Gln	Pro	Cys	Pro	Arg	Arg	Gly	Phe	His	Leu
162				645					650						655	
163	Phe	Gln	Glu	His	Trp	Arg	Gln	Gly	Gln	Pro	Val	Leu	Val	Ser	Gly	Ile
164				660					665						670	
165	Gln	Arg	Thr	Leu	Gln	Gly	Asn	Leu	Trp	Gly	Thr	Glu	Ala	Leu	Gly	Ala
166			675					680					685			
167	Leu	Gly	Gly	Gln	Val	Gln	Ala	Leu	Ser	Pro	Leu	Gly	Pro	Pro	Gln	Pro
168	690						695					700				
169	Ser	Ser	Leu	Gly	Ser	Thr	Thr	Phe	Trp	Glu	Gly	Phe	Ser	Trp	Pro	Glu
170	705					710					715					720
171	Leu	Arg	Pro	Lys	Ser	Asp	Glu	Gly	Ser	Val	Leu	Leu	Leu	His	Arg	Ala
172					725						730				735	
173	Leu	Gly	Asp	Glu	Asp	Thr	Ser	Arg	Val	Glu	Asn	Leu	Ala	Ala	Ser	Leu
174			740						745						750	
175	Pro	Leu	Pro	Glu	Tyr	Cys	Ala	Leu	His	Gly	Lys	Leu	Asn	Leu	Ala	Ser
176			755					760					765			
177	Tyr	Leu	Pro	Pro	Gly	Leu	Ala	Leu	Arg	Pro	Leu	Glu	Pro	Gln	Leu	Trp
178	770						775					780				
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180	785					790					795					800
181	Leu	Cys	Val	Glu	Val	Ala	Asp	Leu	Val	Ser	Ile	Leu	Val	His	Ala	Asp
182					805						810				815	
183	Thr	Pro	Leu	Pro	Ala	Trp	His	Arg	Ala	Gln	Lys	Asp	Phe	Leu	Ser	Gly
184				820					825						830	
185	Leu	Asp	Gly	Glu	Gly	Leu	Trp	Ser	Pro	Gly	Ser	Gln	Val	Ser	Thr	Val
186			835					840					845			
187	Trp	His	Val	Phe	Arg	Ala	Gln	Asp	Ala	Gln	Arg	Ile	Arg	Arg	Phe	Leu
188	850						855					860				
189	Gln	Met	Val	Cys	Pro	Ala	Gly	Ala	Gly	Ala	Leu	Glu	Pro	Gly	Ala	Pro
190	865					870					875					880
191	Gly	Ser	Cys	Tyr	Leu	Asp	Ala	Gly	Leu	Arg	Arg	Arg	Leu	Arg	Glu	Glu
192					885						890				895	
193	Trp	Gly	Val	Ser	Cys	Trp	Thr	Leu	Leu	Gln	Ala	Pro	Gly	Glu	Ala	Val
194				900						905				910		
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200    945          950          955          960
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204          980
206 <210> SEQ ID NO: 3
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208 <212> TYPE: PRT
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214          20          25          30
215    Arg Asp Gly Leu His His Gly Pro Leu Cys Leu Gly Glu Pro Ala Pro
216          35          40          45
217    Phe Trp Arg Gly Val Leu Ser Thr Pro Asp Ser Trp Leu Pro Pro Gly
218          50          55          60
219    Phe Pro Gln Gly Pro Lys Asp Met Leu Pro Leu Val Glu Gly Glu Gly
220          65          70          75          80
221    Pro Gln Asn Gly Glu Arg Lys Val Asn Trp Leu Gly Ser Lys Glu Gly
222          85          90          95
223    Leu Arg Trp Lys Glu Ala Met Leu Thr His Pro Leu Ala Phe Cys Gly
224          100          105          110
225    Pro Ala Cys Pro Pro Arg Cys Gly Pro Leu Met Pro Glu His Ser Gly
226          115          120          125
227    Gly His Leu Lys Ser Asp Pro Val Ala Phe Arg Pro Trp His Cys Pro
228          130          135          140
229    Phe Leu Leu Glu Thr Lys Ile Leu Glu Arg Ala Pro Phe Trp Val Pro
230          145          150          155          160
231    Thr Cys Leu Pro Pro Tyr Leu Val Ser Gly Leu Pro Pro Glu His Pro
232          165          170          175
233    Cys Asp Trp Pro Leu Thr Pro His Pro Trp Val Tyr Ser Gly Gly Gln
234          180          185          190
235    Pro Lys Val Pro Ser Ala Phe Ser Leu Gly Ser Lys Gly Phe Tyr Tyr
236          195          200          205
237    Lys Asp Pro Ser Ile Pro Arg Leu Ala Lys Glu Pro Leu Ala Ala Ala
238          210          215          220
239    Glu Pro Gly Leu Phe Gly Leu Asn Ser Gly Gly His Leu Gln Arg Ala
240          225          230          235          240
241    Gly Glu Ala Glu Arg Pro Ser Leu His Gln Arg Asp Gly Glu Met Gly
242          245          250          255
243    Ala Gly Arg Gln Gln Asn Pro Cys Pro Leu Phe Leu Gly Gln Pro Asp
244          260          265          270
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VERIFICATION SUMMARY

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